PATENT COOPERATION TREATY

~	. 1
From	the
TION	ш.

n	NTE	RN	ΙA	TION	IAL	SEA	RCI	IING	Αl	JTH	OR	ITY	1

INTERNATIONAL SEARCHING AUTHO	DRITY					
То:] .	DO			
SON, Min		PCT				
19th Floor, City Air Tower 159-9, Samsegu, Seoul, 135-973 Republic of Korea	ong-dong, Gangnam-	WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)				
		Date of mailing (day/month/year) 14 APRIL 2006 (14.04.2006)				
Applicant's or agent's file reference		FOR FURTHER	ACTION			
PCTA9512-825			See paragraph 2	? below		
International application No.	nternational filing date	(day/month/year)	Priority date	(day/month/year)		
	06 JANUARY 200	,	1	Y 2005 (06.01.2005)		
International Patent Classification (IPC) or						
C07C 211/29(2006.01)i, A61K 31/135(200	06.01)i	-				
,				•		
CJ Corporation et al						
`				,		
1. This opinion contains indications relating		ns:				
Box No. I Basis of the opinion	on .					
Box No. II Priority	•	•				
Box No. III Non-establishmer	nt of opinion with regar	d to novelty, inventiv	e step and indust	trial applicability		
Box No. IV Lack of unity of	invention					
	ent under Rule 43bis.1(a anations supporting suc		ovelty, inventive	step or industrial applicability;		
Box No. VI Certain documen	ts cited					
Box No. VII Certain defects in	n the international appl	ication	•			
Box No. VIII Certain observation						
Box 140. VIII Certain observation	ons on the international	аррисации		•		
2. FURTHER ACTION If a demand for international preliminar International Preliminary Examining At other than this one to be the IPEA and topinions of this International Searching	uthority ("IPEA") excep he chosen IPEA has no	ot that this does not ap	oply where the ap	oplicant chooses an Authority		
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.						
3. For further details, see notes to Form PCT/ISA/220.						
				103 BH33		
Name and mailing address of the ISA/KR	•	tion of this opinion	Authorized office	at a second		
Korean Intellectual Property Of 920 Dunsan-dong, Seo-gu, Dae 302-701, Republic of Korea	ejeon 13 APRIL 2006	5 (13.04.2006)	LEE, Suk Ju			

Telephone No.82-42-481-8149

Facsimile No. 82-42-472-7140

International application No.

PCT/KR2006/000071

Box No. I Basis of this opinion	
With regard to the language, this opinion has been established on the basis of the internation which it was filed, unless otherwise indicated under this item.	nal application in the language in
This opinion has been established on the basis of a translation from the original langu, which is the language of a translation furnished for the pu	
Rules 12.3 and 23.1(b)).	aposos or international scaren (under
2. With regard to any nucleotide and/or amino acid sequence disclosed in the internation claimed invention, this opinion has been established on the basis of:	nal application and necessary to the
a. type of material	
a sequence listing	•
table(s) related to the sequence listing	
b. format of material	·
on paper	·
in electronic form	
c. time of filing/furnishing	
contained in the international application as filed.	
filed together with the international application in electronic form.	•
furnished subsequently to this Authority for the purposes of search.	
3. In addition, in the case that more than one version or copy of a sequence listing and/or filed or furnished, the required statements that the information in the subsequent or add in the application as filed or does not go beyond the application as filed, as appropriate,	itioanl copies is identical to that
4. Additional comments:	
	•
·	
*	
	•
·	
•	-
Form PCT/ISA/237 (Box No. I)(April 2005)	

International application No.

PCT/KR2006/000071

Box No	o. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
	estions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be ially applicable have not been examined in respect of:
	the entire international application
\boxtimes	claims Nos. 7
beca	ause:
\boxtimes	the said international application, or the said claims Nos. 7
	relate to the following subject matter which does not require an international search (specify):
•	The international Searching Authority is not required to search under PCT Rule 39.1(iv) the subject matter of claim 7 with respect to industrial applicability as it is a method of treating or preventing obesity and related disorders, depression, Parkinson's disease and so on.
•	
	the description, claims or drawings (indicate particular elements below) or said claims Nosare so unclear that no meaningful opinion could be formed (specify):
_	
	the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed (specify):
\boxtimes	no international search report has been established for said claims Nos. 7
	a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit:
	furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Istructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.
	furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Istructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.
	pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rule 13ter.1(a) or (b).
	a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Searching Authority in a form and manner acceptable to it.
	the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.
	See Supplemental Box for further details.

International application No. PCT/KR2006/000071

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Novelty (N)	Claims	1-6	YES
	Claims	None	NO
Inventive step (IS)	Claims	None	YES
	Claims	1-6	NO
Industrial applicability (IA)	Ċlaims	1-6	YES
	Claims	None	NO

2. Citations and explanations:

Reference is made to the following documents:

D1: WO 98/13034 A1 D2: US 6,331,571 B1

The present invention relates to novel dicarboxylic acid salt of sibutramine, a method of preparing a compound, and a pharmaceutical composition.

Document D1 relates to a pharmaceutical composition for lowering lipid levels in the human body comprising a therapeutically effective amount of a compound of formula I.

Document D2 relates to methods of using and compositions comprising, dopamine, reuptake inhibitors and, in particular, racemic and optically pure metabolites of sibutramine.

I. Novelty and Inventive Step

The subject matter of claims 1~6 differs from the disclosure of D1-D2 mainly in that salt of sibutramine in the chemical formula 1 is dicarboxylic acid salt.

None of the documents D1 and D2 teach or suggest such a dicarboxylic acid salt of sibutramine.

Therefore, the novelty of the subject matter of the present invention can be acknowledged under PCT Article 33(2).

However, document D1 discloses succinates of sibutramine. Documents D1 and D2 disclose tartrates of sibutramine. Difference between dicarboxylic acid salt of the present invention and succinates or tartrates of D1-D2 is carbon number which can be easily chosen or hydroxyl group(OH) which can be simply substituted.

(Continued in Supplemental Box.)

International application No.

PCT/KR2006/000071

Supp	lem	ental	Box
------	-----	-------	-----

In case the space in any of the preceding boxes is not sufficient. Continuation of:

Box V.

In addition, the present invention is not particularly different from D1-D2 in the pharmaceutical usages and the manufacturing method. Thus the present invention is considered to be easily invented by a person skilled in the art by simply substituting or modifying the well-known compounds. Concerning the effect, there is no remarkable difference over that of D1-D2.

Therefore, the subject matter of claims 1-6 does not satisfy the requirements of PCT Article 33(3).

II. Industrial Applicability

The subject matter of claims 1-6 is considered to be industrially applicable under PCT Article 33(4).

International application No.

PCT/KR2006/000071

Supplemental Box		**	14:
In case the space in any of the preceding boxes is not sufficient. Continuation of:			 ;
		•	
	•		
	·		
	•	•	
		,	
Ģ.			
•			
-			
•			
· ·			
•			